FIG.1

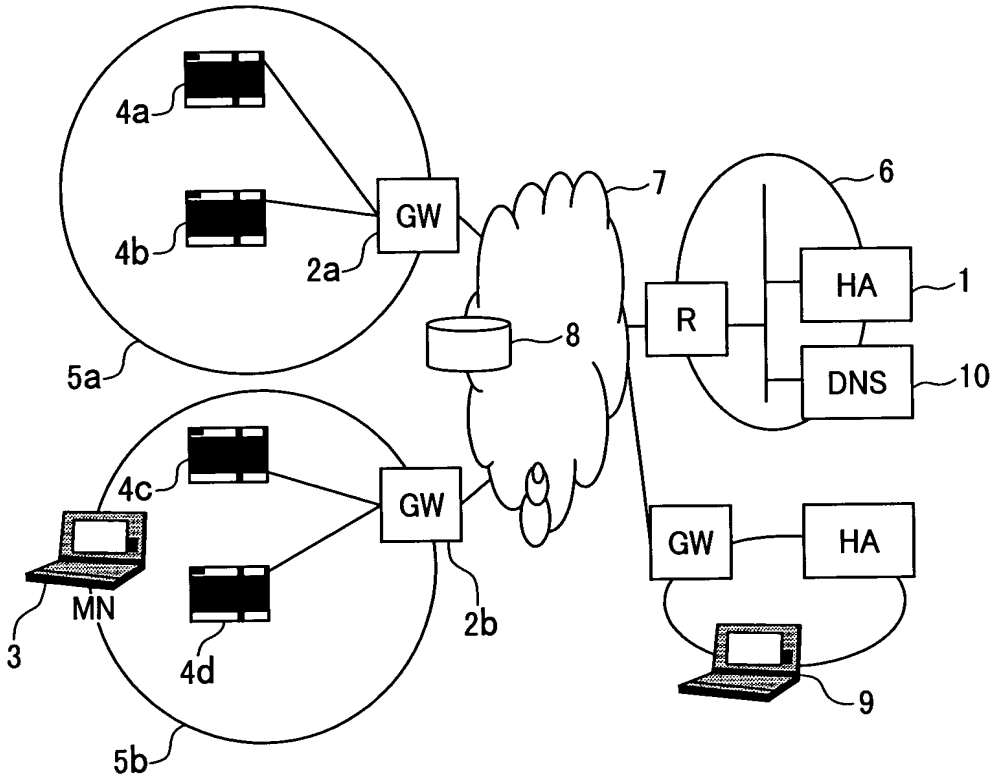


FIG.2

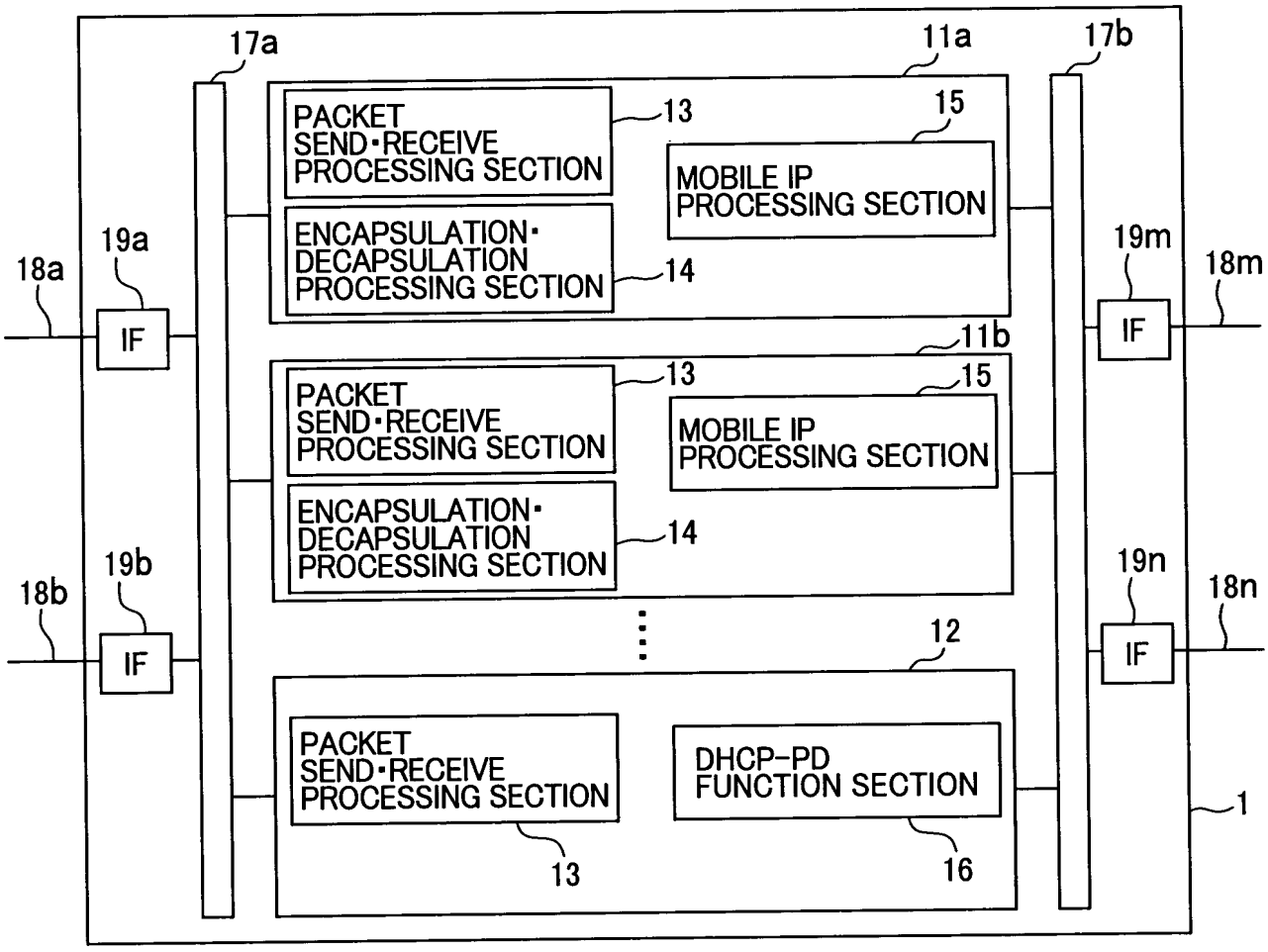

17a
11a
17b
PACKET SEND·RECEIVE PROCESSING SECTION
13
15
MOBILE IP PROCESSING SECTION
ENCAPSULATION· DECAPSULATION PROCESSING SECTION
14
19a
18a
IF
19m
18m
IF
11b
PACKET SEND·RECEIVE PROCESSING SECTION
13
15
MOBILE IP PROCESSING SECTION
ENCAPSULATION· DECAPSULATION PROCESSING SECTION
14
19b
18b
IF
19n
18n
IF
12
PACKET SEND·RECEIVE PROCESSING SECTION
DHCP-PD FUNCTION SECTION
13
16
1

FIG.3

330 BINDING CACHE MANAGEMENT TABLE

331 HOME ADDRESS	332 CARE OF ADDRESS	333 LIFETIME	
			330-1
			330-2
			330-n

FIG.4

310 PREFIX MANAGEMENT TABLE(HA)

311 DHCP CLIENT IDENTIFIER	312 IAID	313 PREFIX	314 LIFETIME	
				310-1
				310-2
				310-n

FIG.5

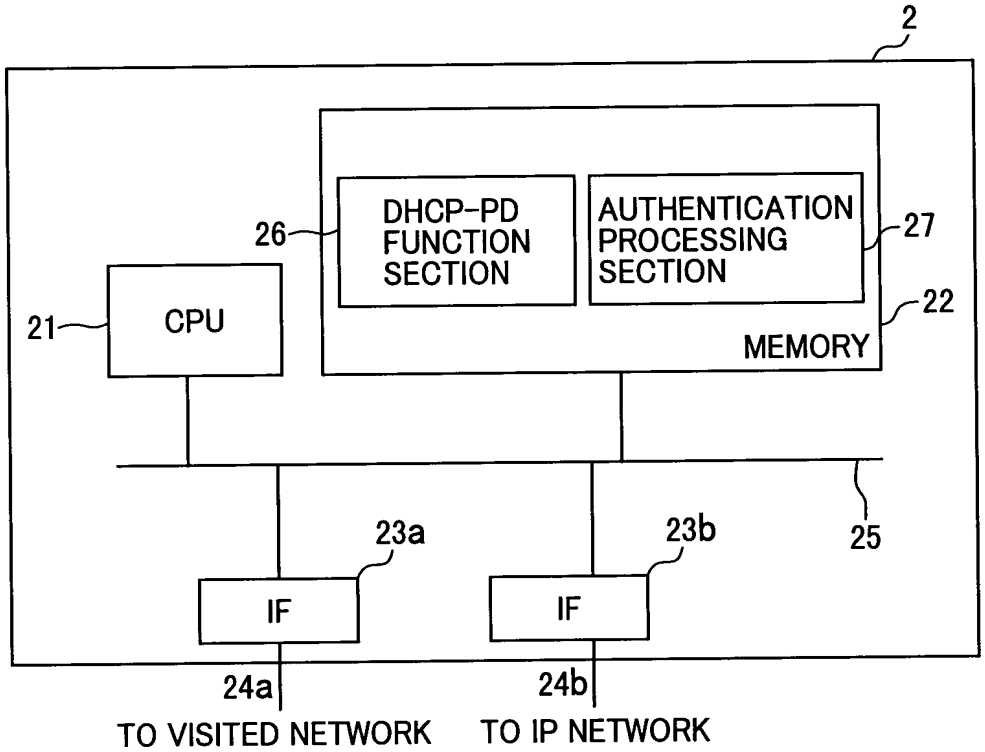

2
DHCP-PD
FUNCTION
SECTION
26
AUTHENTICATION
PROCESSING
SECTION
27
22
MEMORY
CPU
21
25
23a
23b
IF
IF
24a
24b
TO VISITED NETWORK
TO IP NETWORK

FIG.6

320 PREFIX MANAGEMENT TABLE(GW)

321	322	323	324	325	
IA_PD	IAID	PREFIX	LIFETIME	DHCP SERVER IDENTIFIER	
					320-1
					320-2
					320-n

FIG.7

340 ACCEPTABLE IP ADDRESS LIST

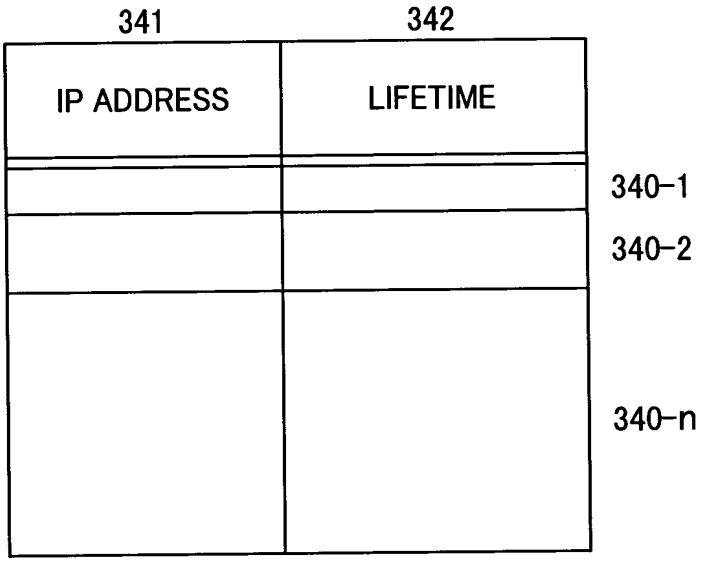


FIG.8

350 ZONE FILE

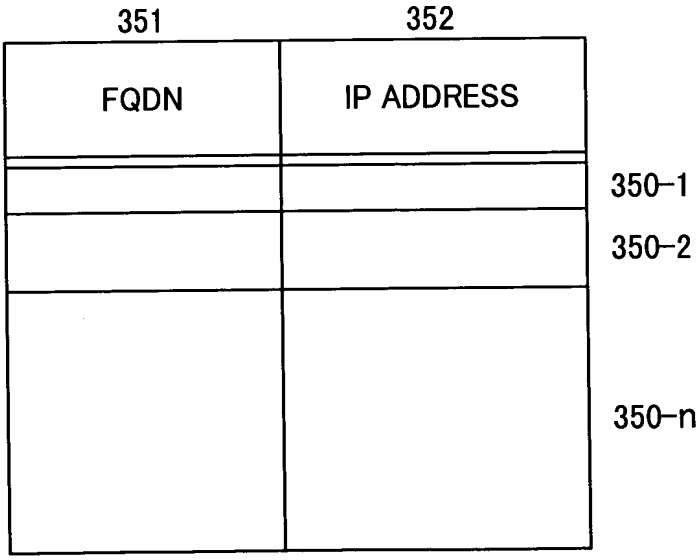


FIG.9

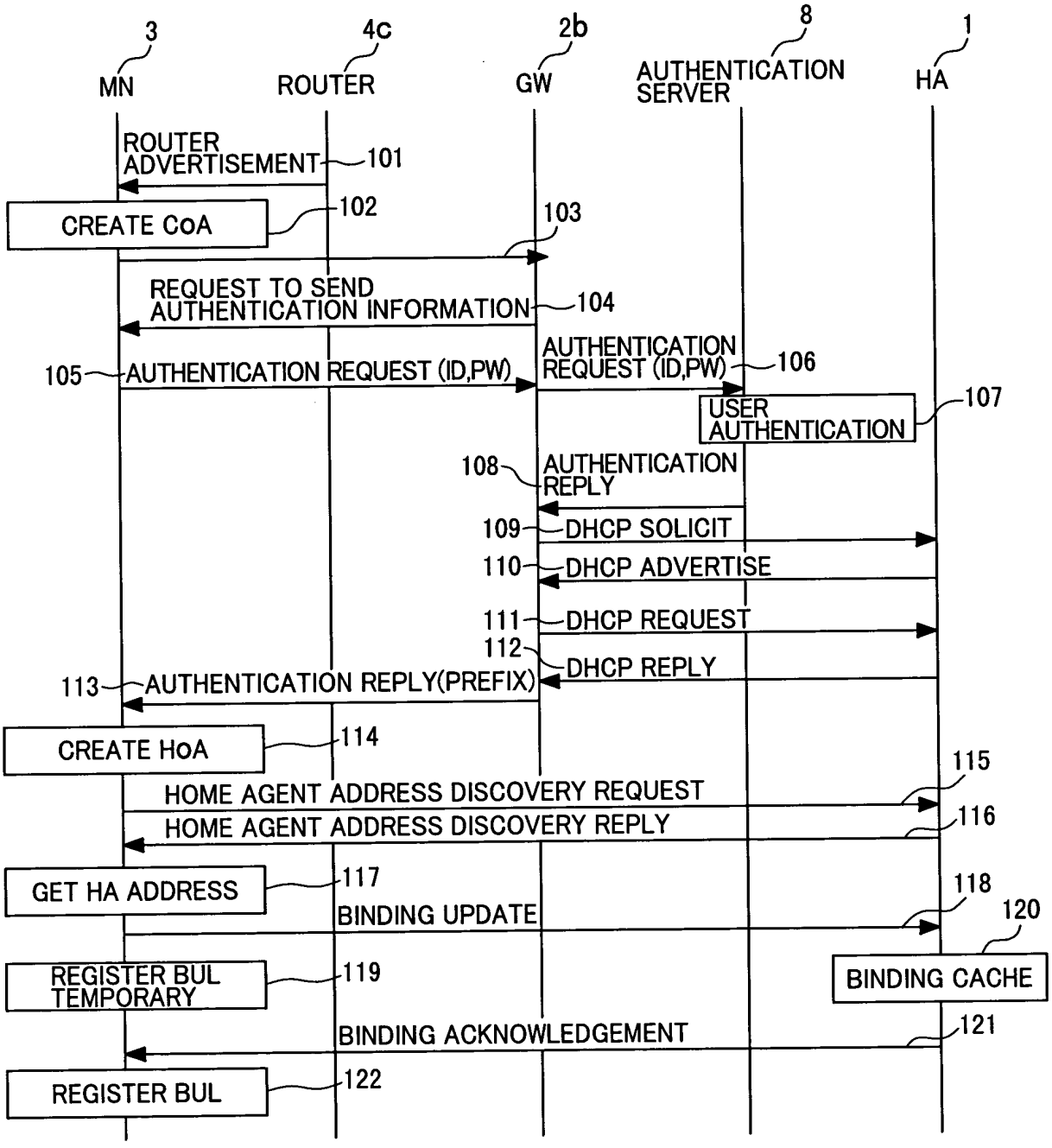

3
MN
4c
ROUTER
2b
GW
8
AUTHENTICATION SERVER
1
HA
ROUTER ADVERTISEMENT
101
CREATE CoA
102
103
REQUEST TO SEND AUTHENTICATION INFORMATION
104
105
AUTHENTICATION REQUEST (ID,PW)
AUTHENTICATION REQUEST (ID,PW)
106
USER AUTHENTICATION
107
108
AUTHENTICATION REPLY
109
DHCP SOLICIT
110
DHCP ADVERTISE
111
DHCP REQUEST
112
DHCP REPLY
113
AUTHENTICATION REPLY(PREFIX)
CREATE HoA
114
115
HOME AGENT ADDRESS DISCOVERY REQUEST
HOME AGENT ADDRESS DISCOVERY REPLY
116
GET HA ADDRESS
117
118
BINDING UPDATE
120
REGISTER BUL TEMPORARY
119
BINDING CACHE
BINDING ACKNOWLEDGEMENT
121
REGISTER BUL
122

FIG.10

70 AUTHENTICATION PROCESSING ROUTINE(GW)

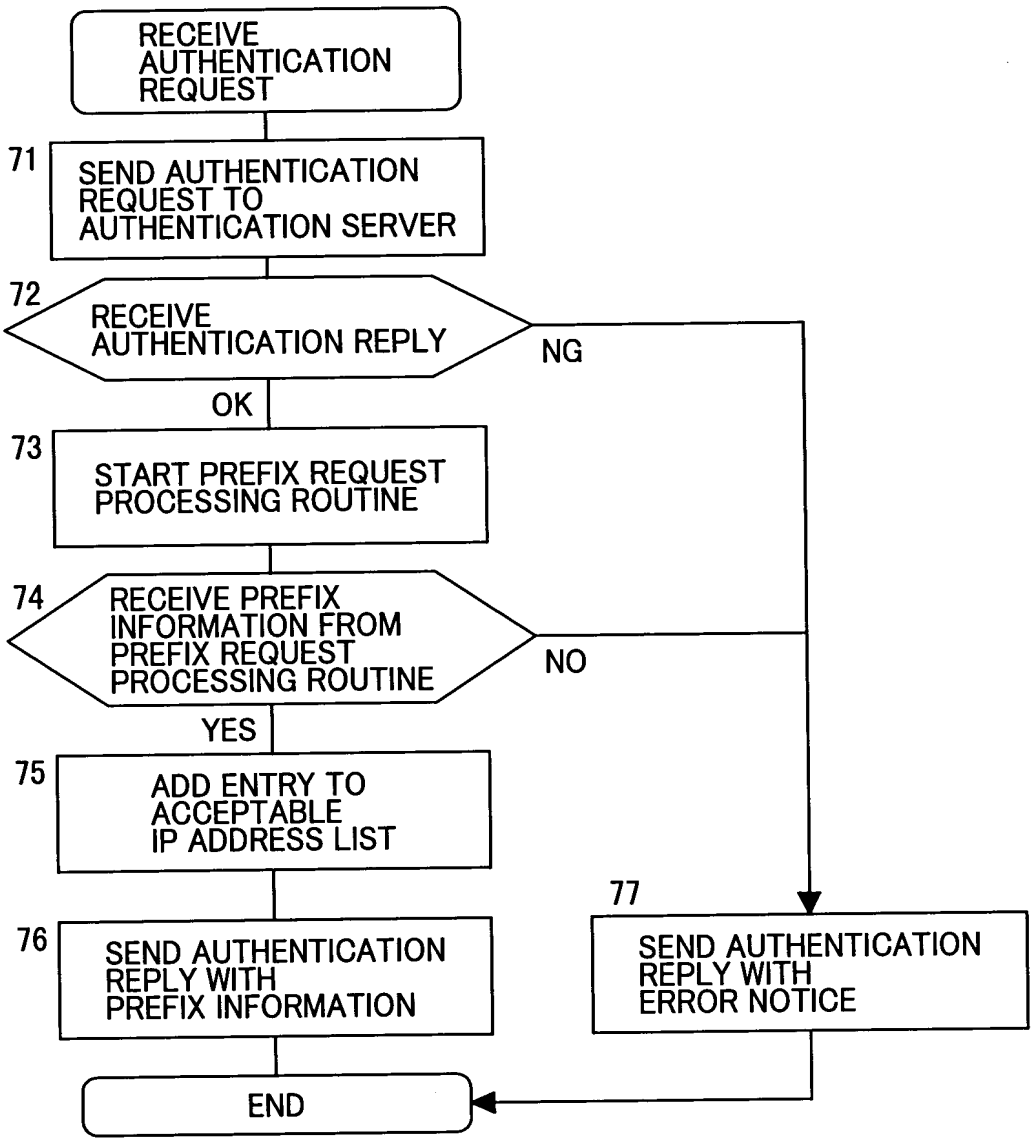


FIG.11

60 PREFIX REQUEST PROCESSING ROUTINE(GW)

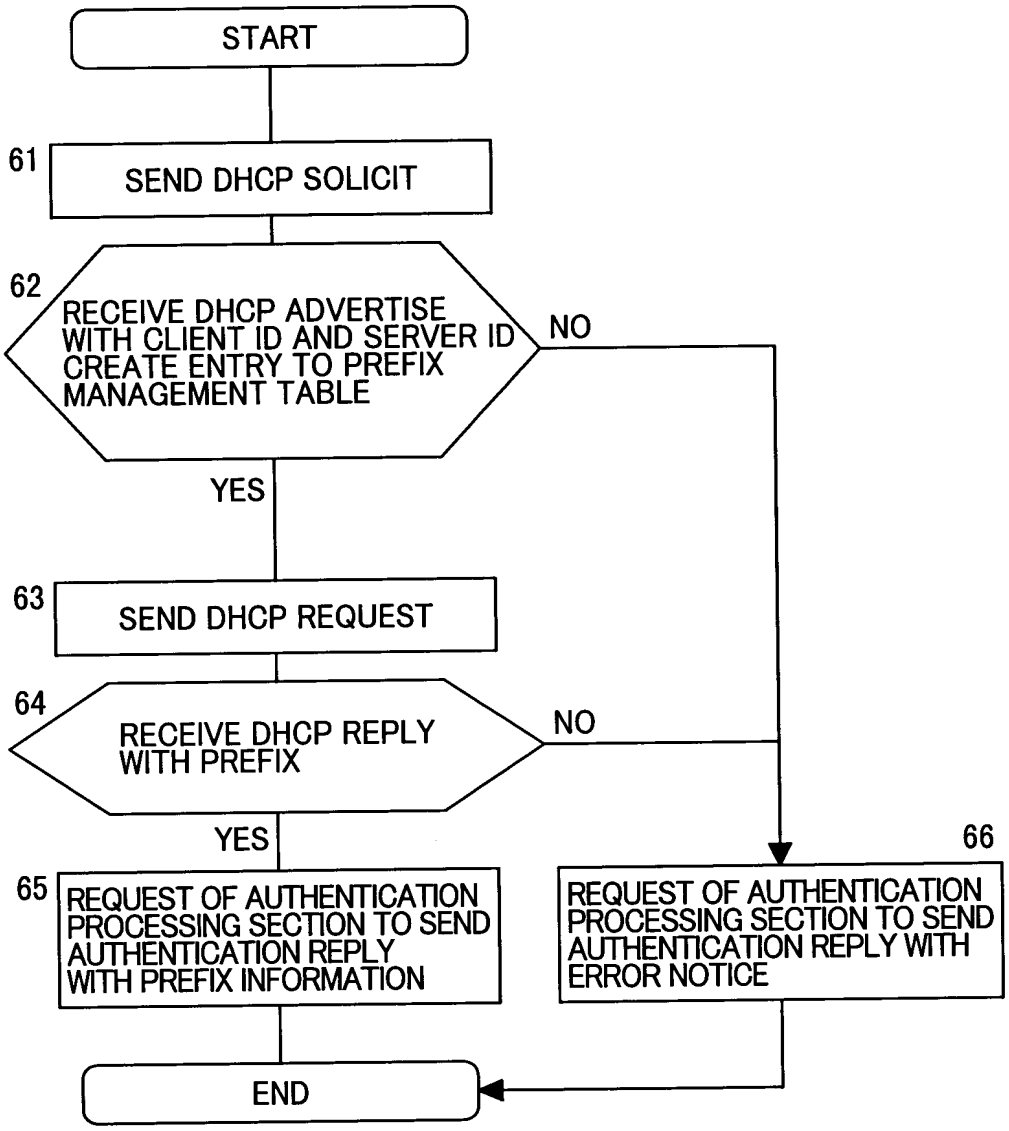


FIG.12

80 PREFIX DELEGATION PROCESSING ROUTINE(HA)

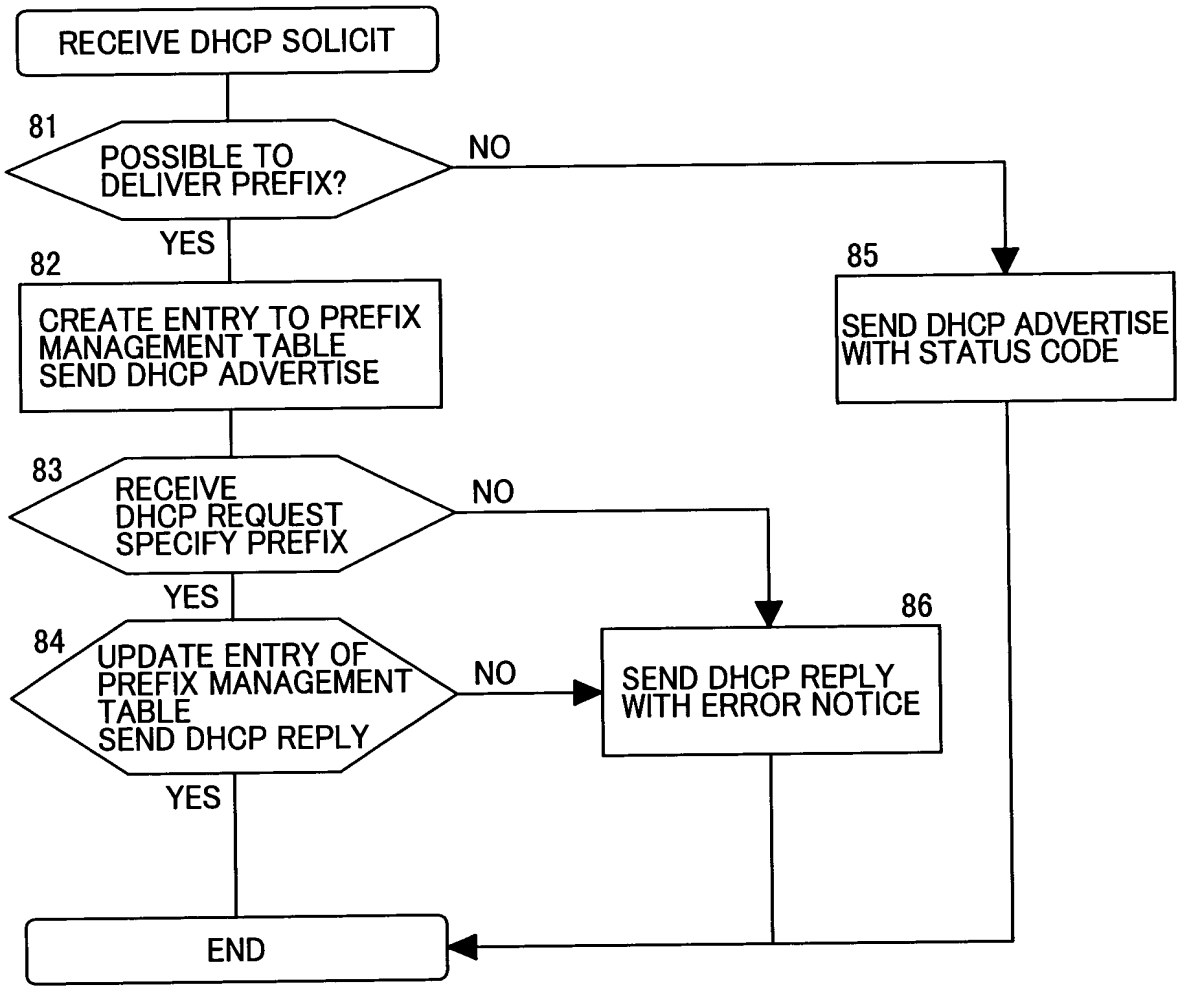


FIG.13

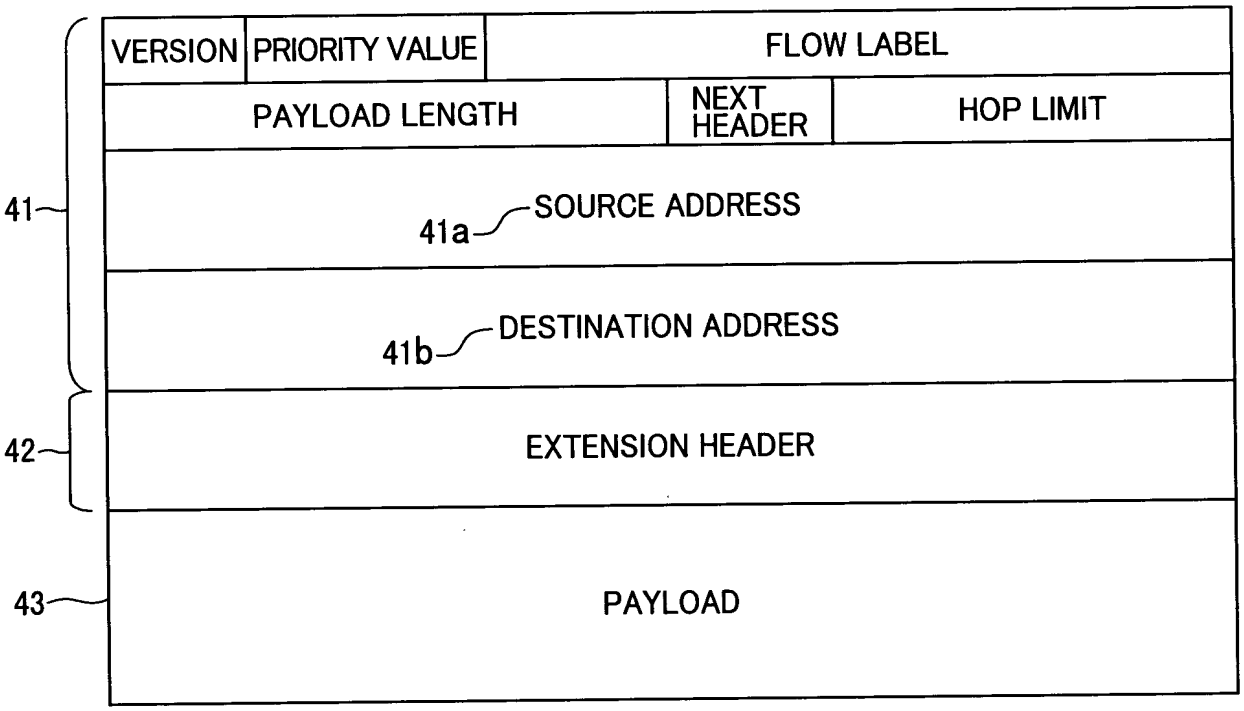

VERSION
PRIORITY VALUE
FLOW LABEL
PAYLOAD LENGTH
NEXT HEADER
HOP LIMIT
41
41a
SOURCE ADDRESS
41b
DESTINATION ADDRESS
42
EXTENSION HEADER
43
PAYLOAD

FIG.14

S1 EXAMPLE OF DHCPv6 PACKET FORMAT

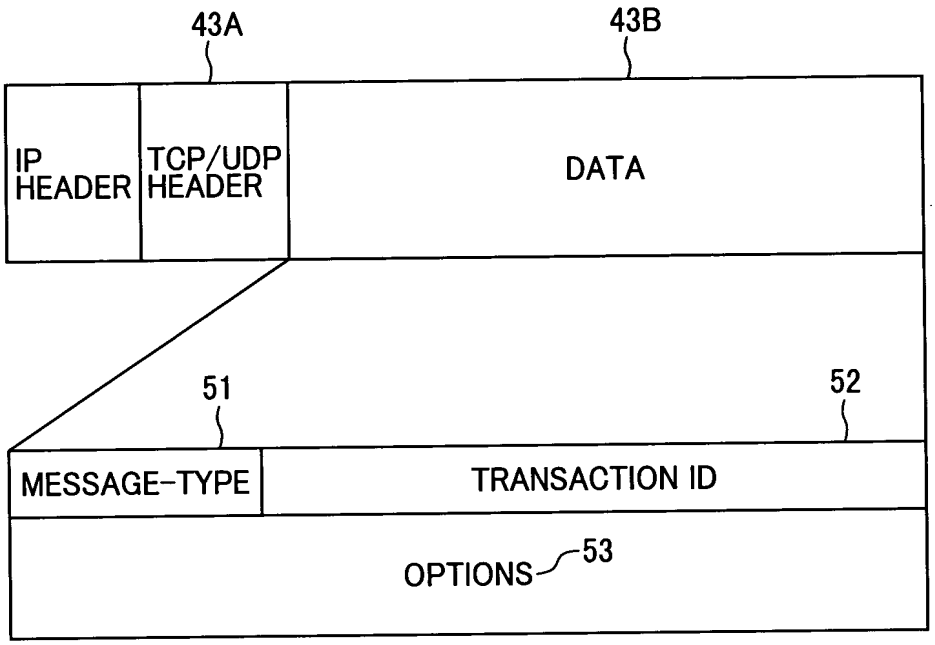


FIG.15

S2 EXAMPLE OF IA_PD OPTIONS FORMAT

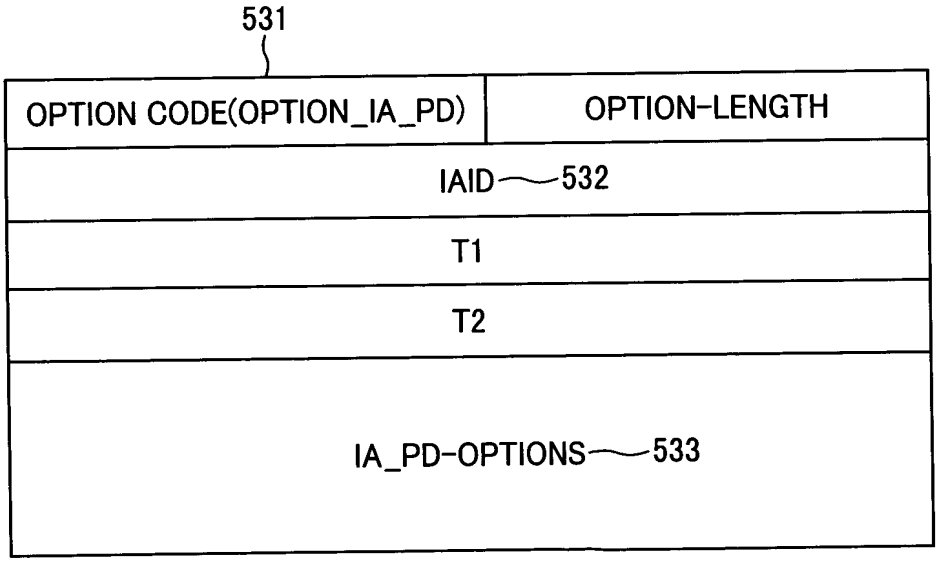


FIG.16

S3 EXAMPLE OF IA_PD PREFIX OPTIONS FORMAT

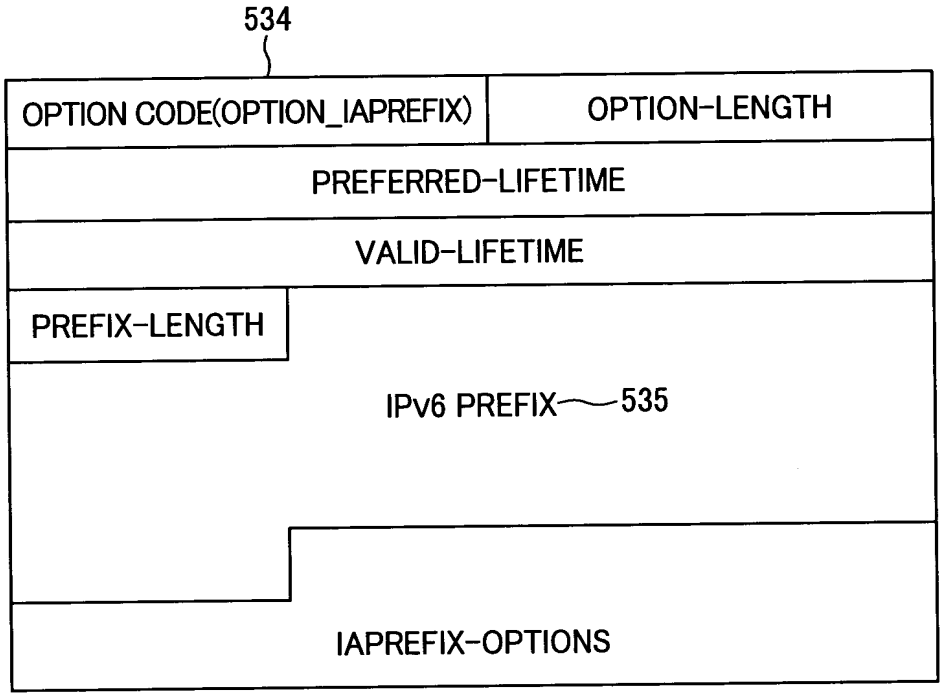


FIG.17

S11 HOME AGENT ADDRESS DISCOVERY REQUEST MESSAGE FORMAT

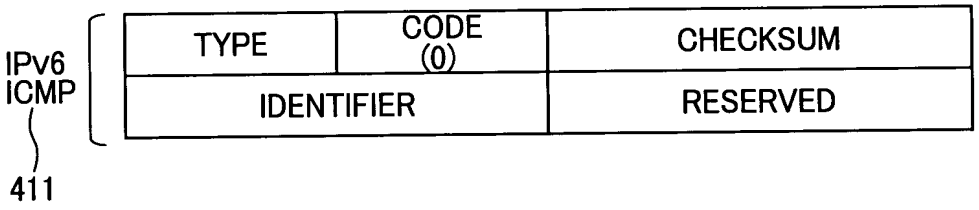


FIG.18

S12 HOME AGENT ADDRESS DISCOVERY REPLY MESSAGE FORMAT

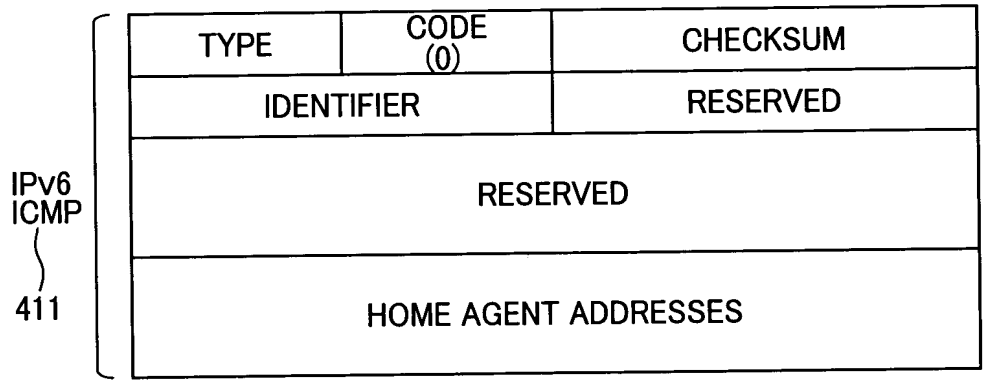


FIG.19

S13 BINDING UPDATE MESSAGE FORMAT

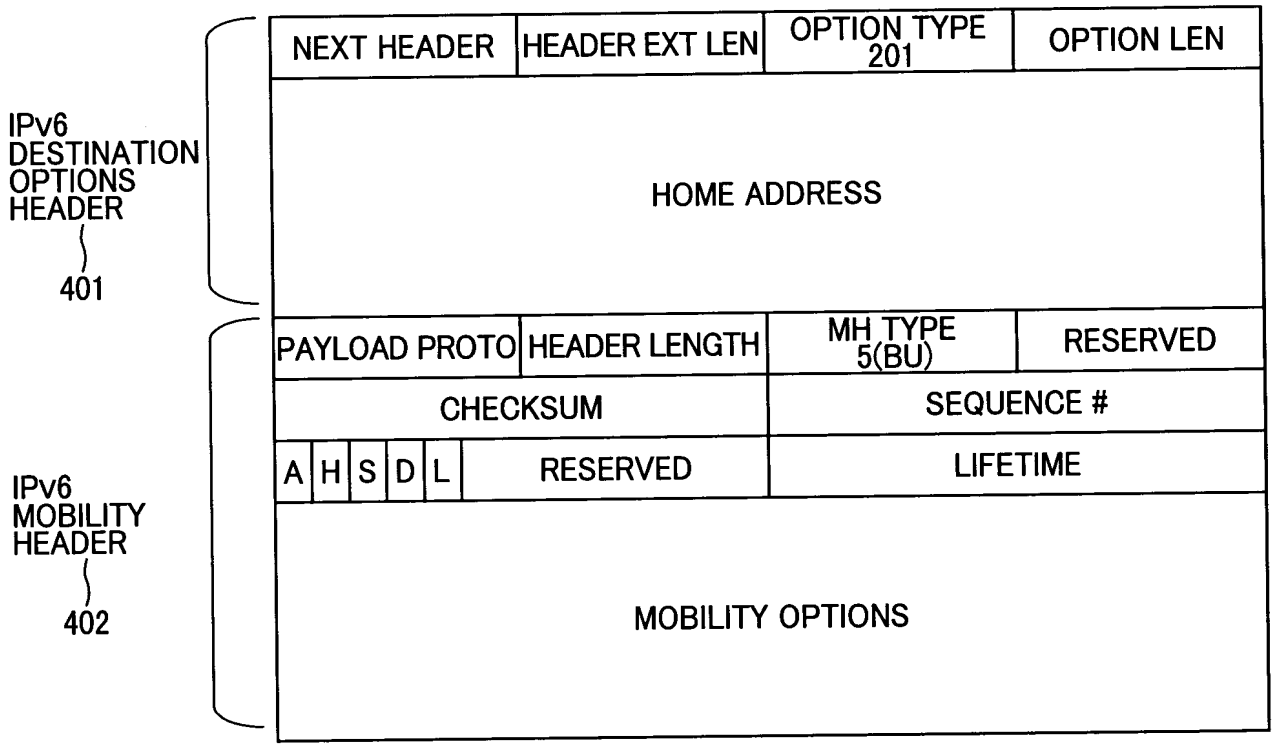


FIG.20

S14 BINDING ACKNOWLEDGEMENT MESSAGE FORMAT

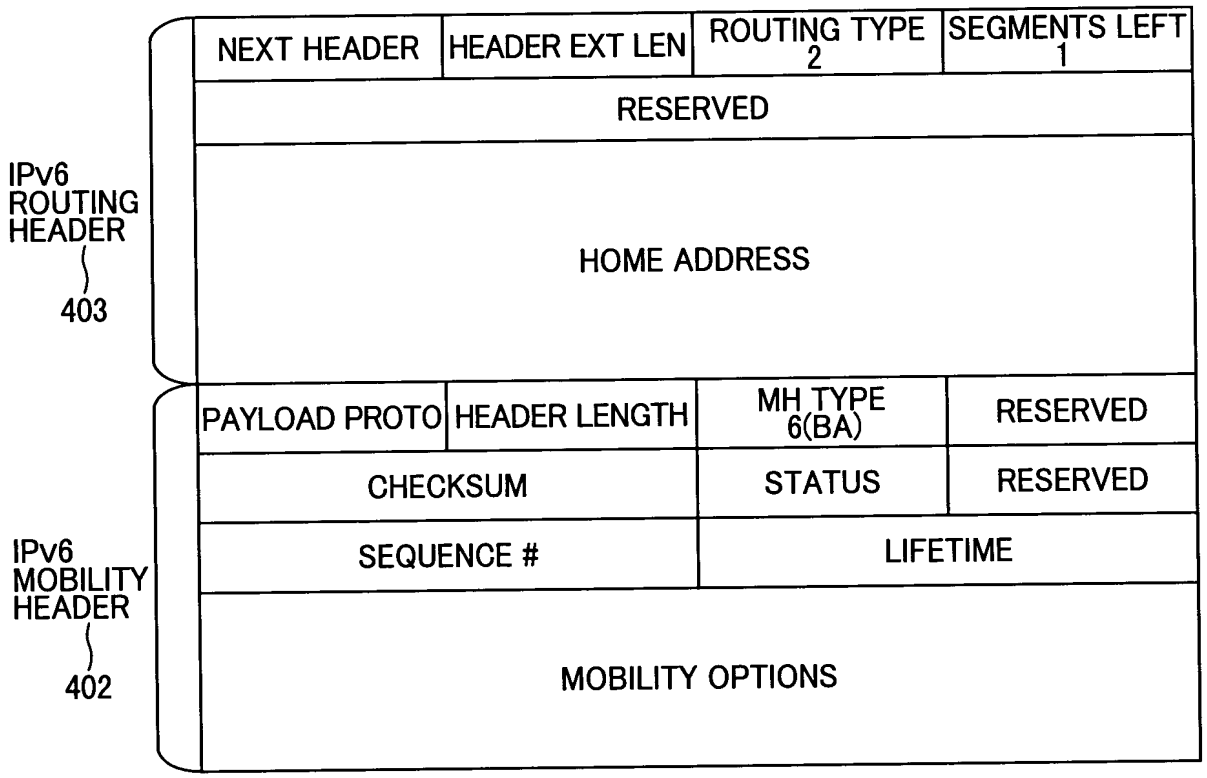


FIG.21

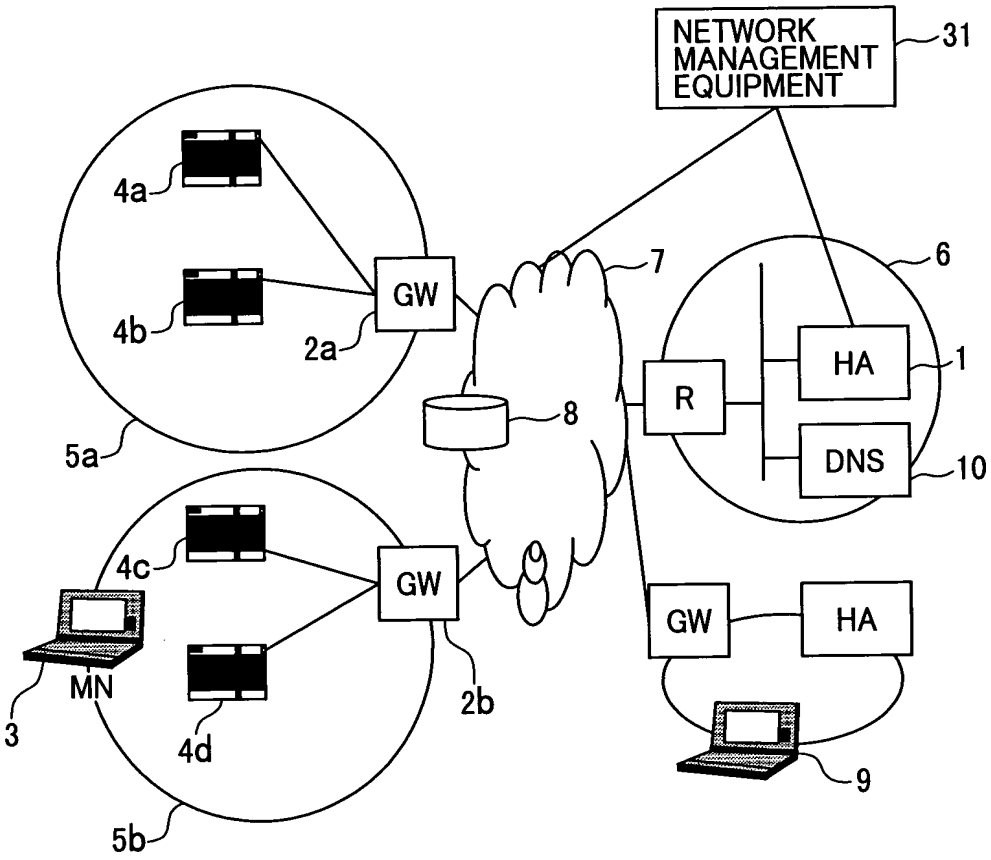

NETWORK MANAGEMENT EQUIPMENT
31
4a
4b
GW
2a
5a
7
6
HA
1
R
8
DNS
10
4c
GW
GW
HA
MN
3
4d
2b
9
5b

FIG.22

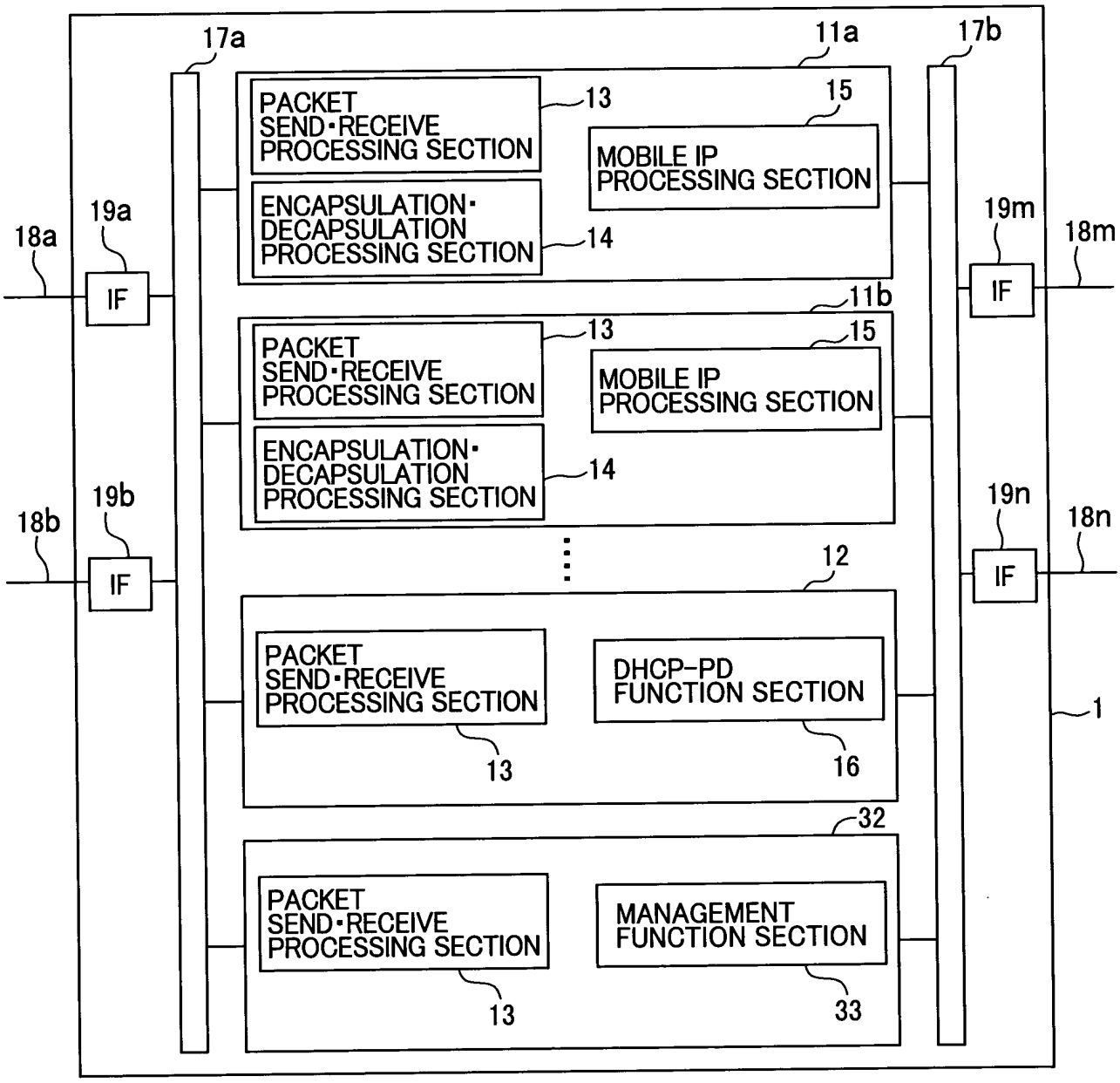

17a
11a
17b
PACKET SEND·RECEIVE PROCESSING SECTION
13
15
MOBILE IP PROCESSING SECTION
ENCAPSULATION· DECAPSULATION PROCESSING SECTION
14
19a
18a
IF
19m
18m
IF
11b
PACKET SEND·RECEIVE PROCESSING SECTION
13
15
MOBILE IP PROCESSING SECTION
ENCAPSULATION· DECAPSULATION PROCESSING SECTION
14
19b
18b
IF
19n
18n
IF
12
PACKET SEND·RECEIVE PROCESSING SECTION
13
DHCP-PD FUNCTION SECTION
16
1
32
PACKET SEND·RECEIVE PROCESSING SECTION
13
MANAGEMENT FUNCTION SECTION
33

FIG.23

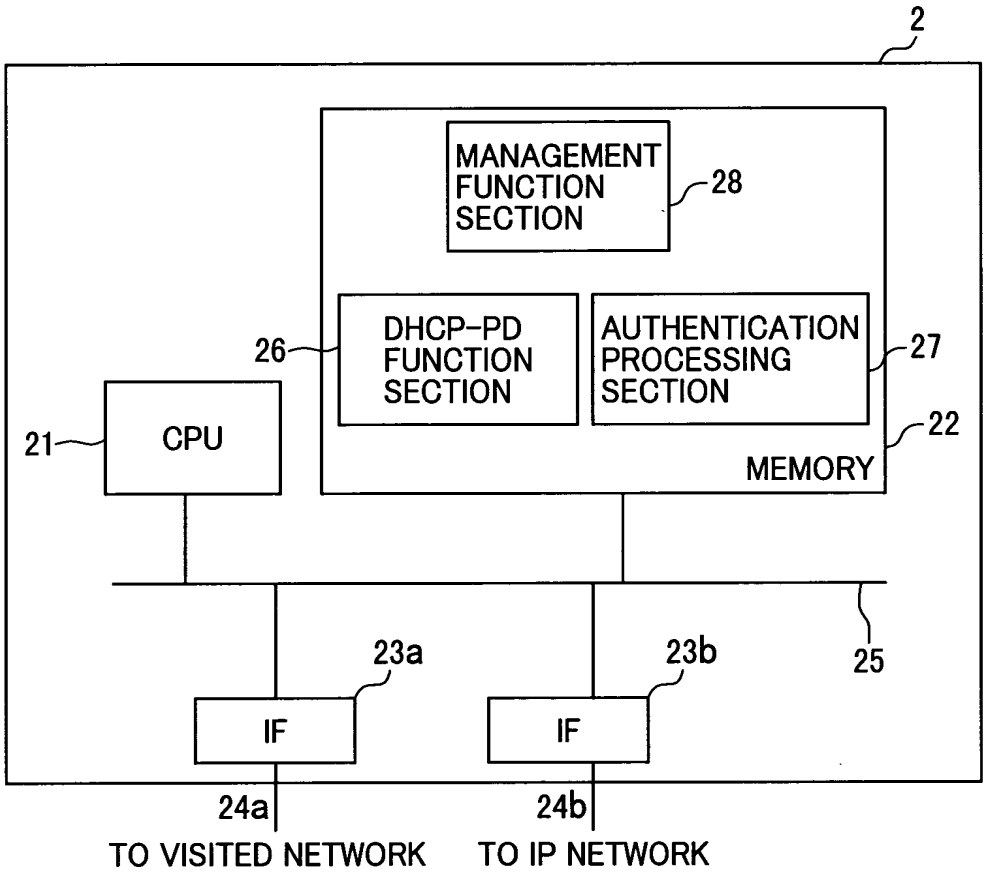

2
MANAGEMENT FUNCTION SECTION
28
DHCP-PD FUNCTION SECTION
26
AUTHENTICATION PROCESSING SECTION
27
CPU
21
MEMORY
22
25
23a
23b
IF
IF
24a
24b
TO VISITED NETWORK
TO IP NETWORK

FIG.24

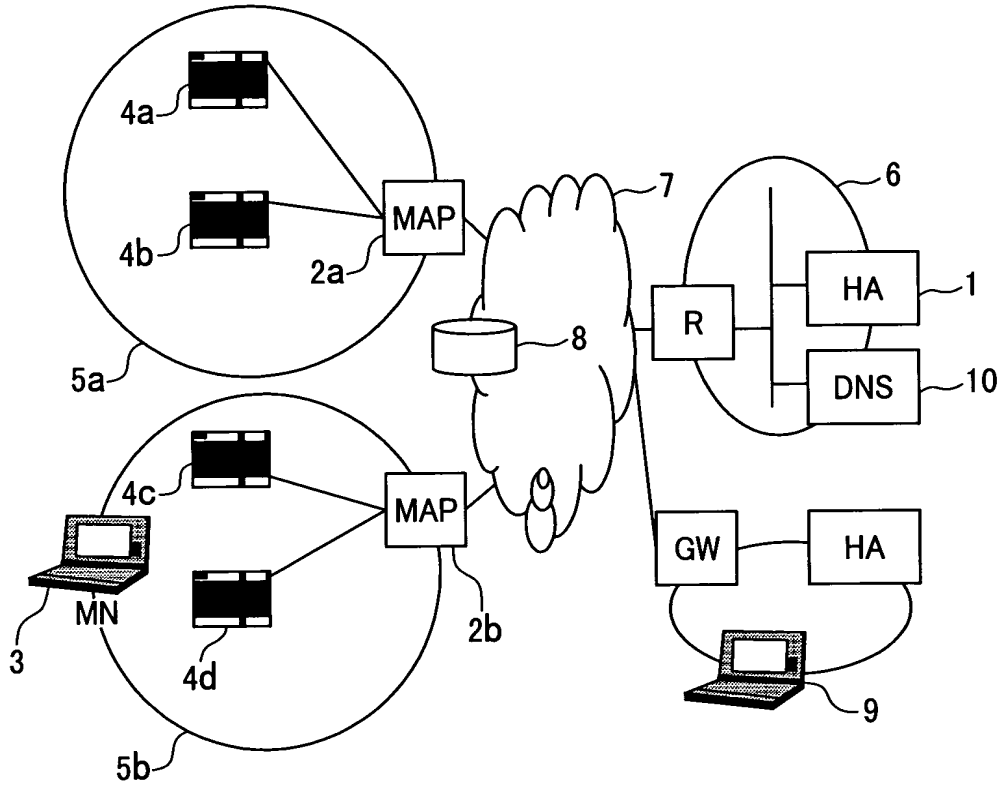


FIG.25

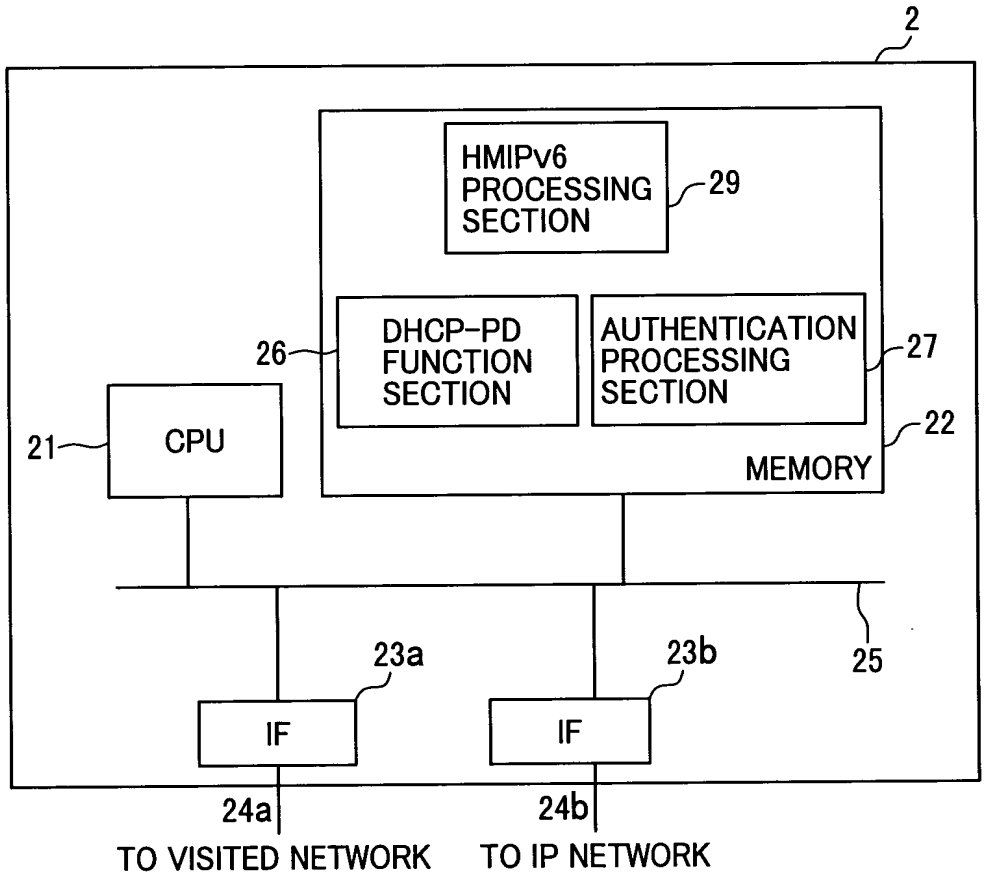

2
HMIPv6
PROCESSING
SECTION
29
DHCP-PD
FUNCTION
SECTION
26
AUTHENTICATION
PROCESSING
SECTION
27
CPU
21
22
MEMORY
25
23a
23b
IF
IF
24a
24b
TO VISITED NETWORK
TO IP NETWORK

FIG.26

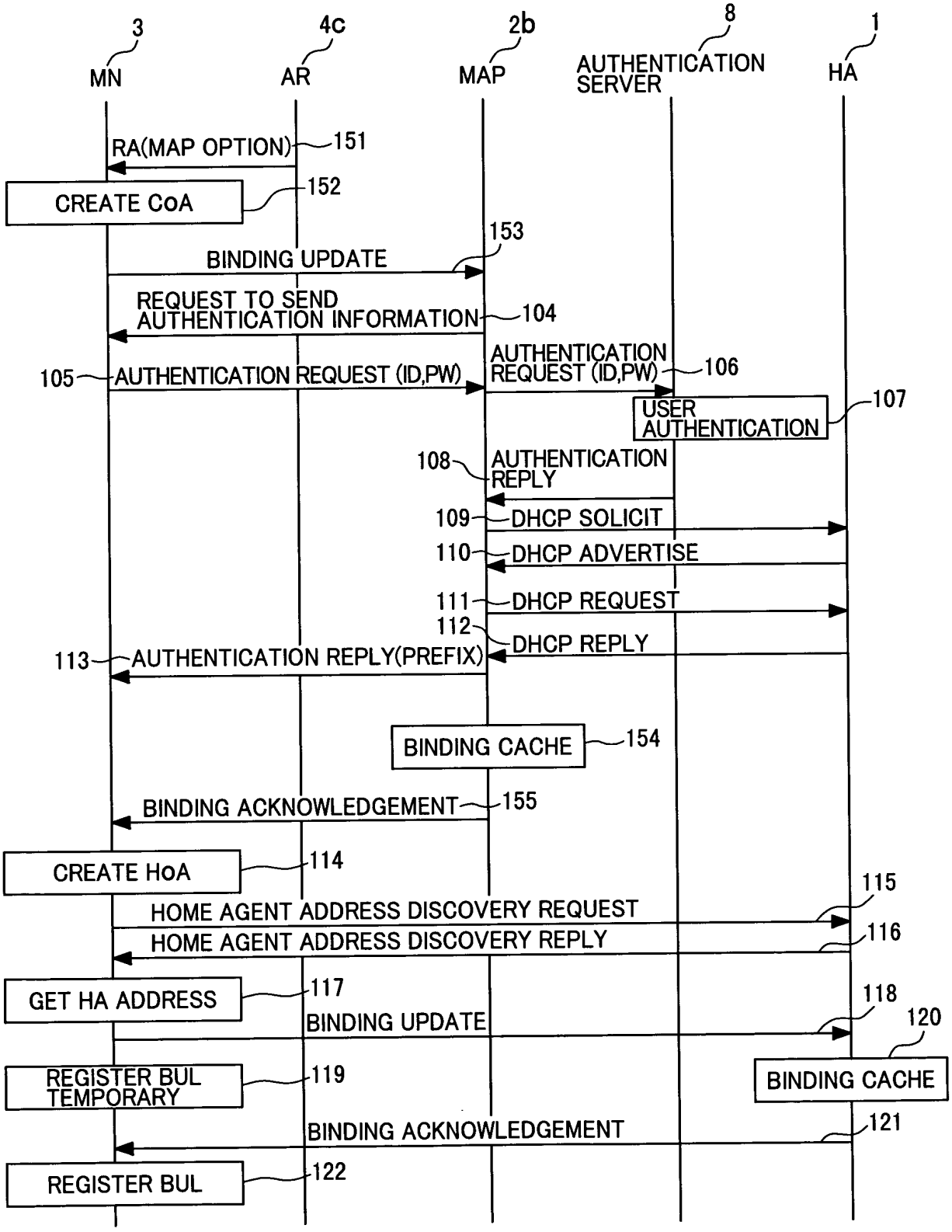

3
MN
4c
AR
2b
MAP
8
AUTHENTICATION SERVER
1
HA
RA(MAP OPTION)
151
CREATE CoA
152
153
BINDING UPDATE
REQUEST TO SEND AUTHENTICATION INFORMATION
104
105
AUTHENTICATION REQUEST (ID,PW)
AUTHENTICATION REQUEST (ID,PW)
106
USER AUTHENTICATION
107
108
AUTHENTICATION REPLY
109
DHCP SOLICIT
110
DHCP ADVERTISE
111
DHCP REQUEST
112
DHCP REPLY
113
AUTHENTICATION REPLY(PREFIX)
BINDING CACHE
154
BINDING ACKNOWLEDGEMENT
155
CREATE HoA
114
115
HOME AGENT ADDRESS DISCOVERY REQUEST
HOME AGENT ADDRESS DISCOVERY REPLY
116
GET HA ADDRESS
117
118
BINDING UPDATE
120
REGISTER BUL TEMPORARY
119
BINDING CACHE
BINDING ACKNOWLEDGEMENT
121
REGISTER BUL
122

FIG.27

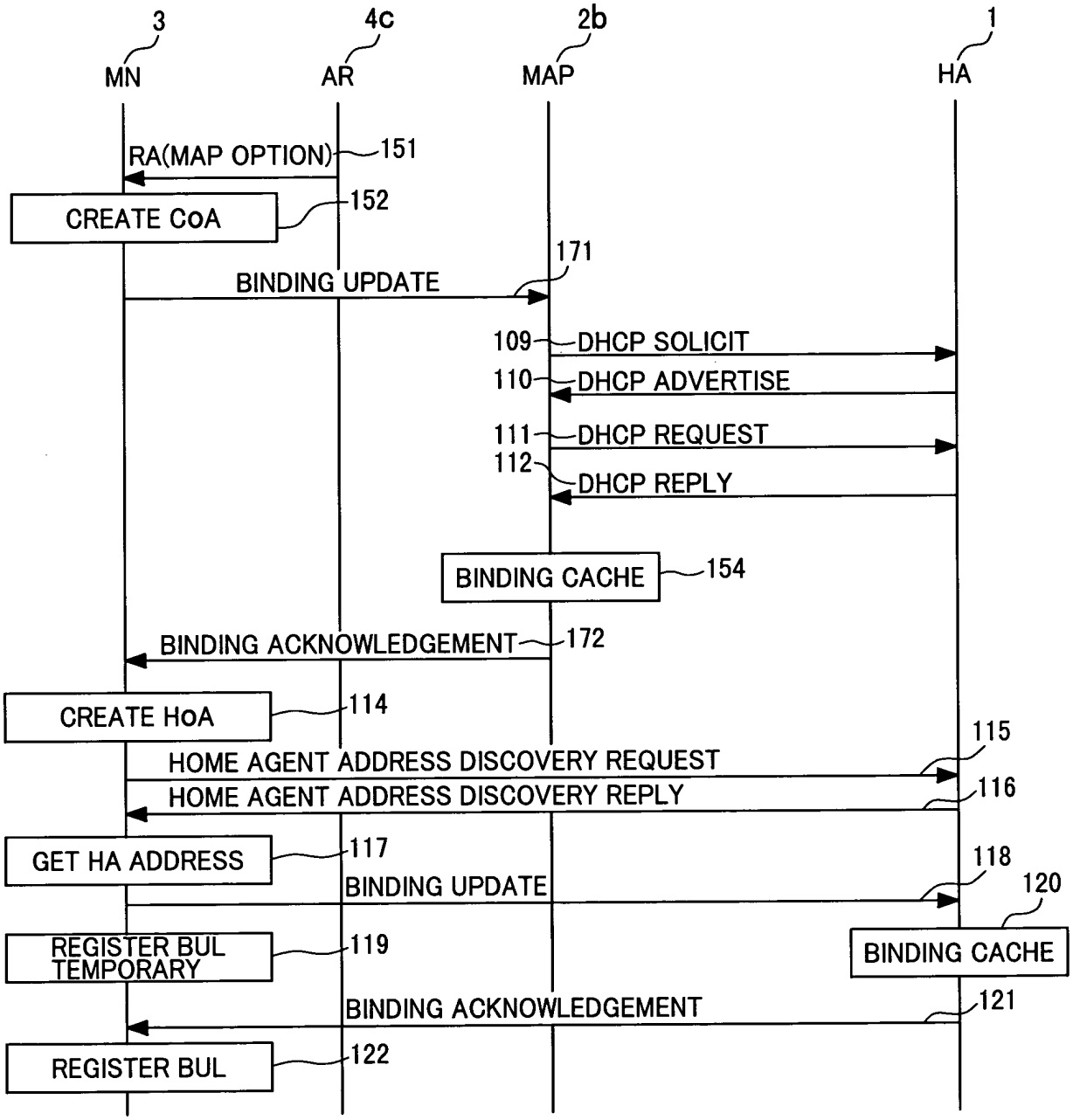
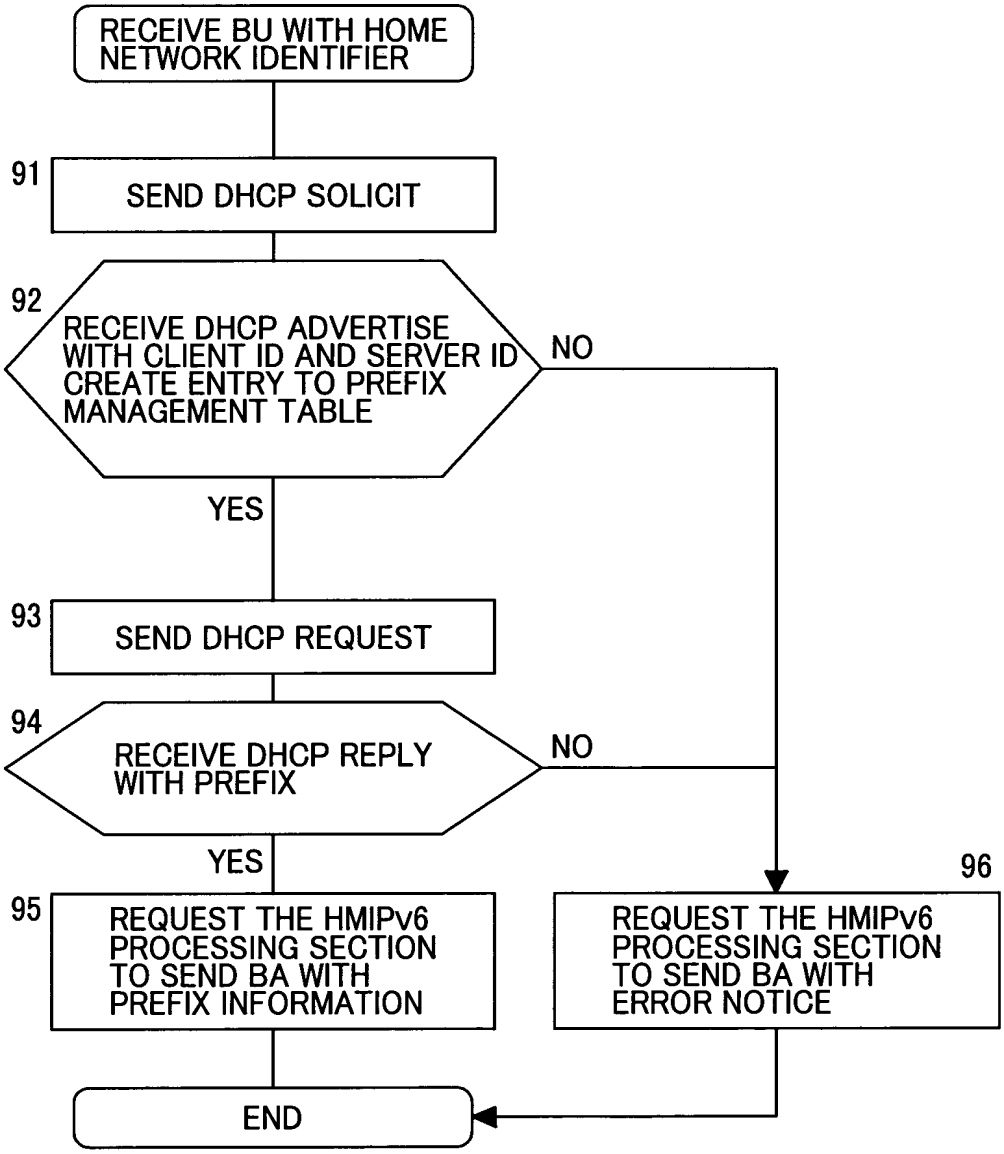

3
MN
4c
AR
2b
MAP
1
HA
RA(MAP OPTION)
151
CREATE CoA
152
171
BINDING UPDATE
109
DHCP SOLICIT
110
DHCP ADVERTISE
111
DHCP REQUEST
112
DHCP REPLY
BINDING CACHE
154
BINDING ACKNOWLEDGEMENT
172
CREATE HoA
114
115
HOME AGENT ADDRESS DISCOVERY REQUEST
116
HOME AGENT ADDRESS DISCOVERY REPLY
GET HA ADDRESS
117
118
BINDING UPDATE
120
REGISTER BUL TEMPORARY
119
BINDING CACHE
BINDING ACKNOWLEDGEMENT
121
REGISTER BUL
122

FIG.28

90 PREFIX REQUEST PROCESSING ROUTINE(GW)